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Γ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/495,141	01/31/2000	Mark J. Hampden-Smith	SMP-023-2-1	4450
	. 75	90 06/23/2005		EXAMINER	
David F. Dockery MARSH FISCHMANN & BREYFOGLE LLP				TALBOT, BRIAN K	
3151 S. Vaughn Way, Suite 411			ART UNIT	PAPER NUMBER	
	Aurora, CO 8	• .	•	1762	
				DATE MAILED: 06/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 4/18/05 (RCE). 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 12-20 and 24-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)□ Claim(s) 12-20 and 24-38 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to. 8)□ Claim(s) is/are objected to by the Examiner. 10)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No. 2.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.								
Examiner Prince Art Unit Prince Art			Application No.	Applicant(s)				
Brian K. Talbot Price MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			09/495,141	HAMPDEN-SMITH ET AL.				
Preirol for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Educations of time may be available under the precisions of 37 CFR 113(b), in no event, however, may a reply be timely filled Education of 17 CFR 113(b), in no event, however, may a reply be timely filled Education of 17 CFR 113(b), in no event, however, may a reply be timely filled Education of 17 CFR 113(b), in no event, however, may a reply be timely filled Education of the period for reply specified above, he maximum station, period will explain the filled for reply specified above, he maximum station, period will explain a fill the period for reply within the set of extended period for reply will, by station, anuse the application is become ABANCONED (39 US.C. § 133). Fill period for reply specified above, he maximum station, period will reply and will explain station. Period for reply will, by station is period for reply will, by station, make the application is become ABANCONED (39 US.C. § 133). Fill period for reply specified the set of the seminarization of the seminarization. Filling the seminarization is period for reply will, by station is period for reply will, by station, make the application is become ABANCONED (39 US.C. § 133). Fill period for the seminarization is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 Q.G. 213. Disposition of Claims 4) Claim(s) 12-20 and 24-38 is/are pending in the application. 4) Claim(s) 12-20 and 24-38 is/are rejected. 5) Claim(s) 12-20 and 24-38 is/are rejected. 5) Claim(s) 12-20 and 24-38 is/are rejected. 6) Claim(s) 12-20 and 24-38 is/are allowed. 6) Claim(s) 12-20 and 24-38 is/are rejected. 7) Claim(s) 12-20 and 24-38 is/are rejected. 8) Claim(s) 12-20 and 24-38 is/are rejected. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 15-20 and 15-20 and 15-20 and 15-20 and 15-		Office Action Summary	Examiner	Art Unit				
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Application/Control Number: 09/495,141 Page 2

Art Unit: 1762

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

2. Claims 12-20 and 24-38 remain in the application.

37 CFR 1.114. Applicant's submission filed on 4/18/05 has been entered.

- 3. In light of the response filed 4/18/05, the 35 USC 103 rejections have been withdrawn. The following rejections have been added.
- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who

has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 12,13,1619,20,24 and 27-34 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Kawamura et al. (6,547,617).

Kawamura et al. (6,547,617) teaches a manufacturing method for a PDP that can continuously apply phosphor ink accurately. The phosphor ink is expelled from a nozzle while the nozzle moves relative to the channels between partition walls for deposition. The phosphor ink have an average particle diameter of 0.5-5 microns and mixed in a solvent to form the dispersion (abstract). As can be seen from Figs. 3 and 14 and col. 8-10, the nozzle is controllable in the X-Y direction. Viscosities of less than 30 centipoise are utilized. Kawamura et al. (6,547,617) teaches coating three kinds of phosphor (blue,green,red) at different areas of the display panel.

Claims 14,15,18,33,35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kawamura et al. (6,547,617) in combination with Matsuda et al. (5,644,193) and Oshima et al. (5,932,139).

Features described above are incorporated here.

Art Unit: 1762

Kawamura et al. (6,547,617) fails to teach the phosphor particles comprising metal oxide and metal sulfides or being hollow.

Matsuda et al. (5,644,193) teaches a phosphor coating for cathode ray tubes, fluorescent lamps and radiation screens. The phosphor coating suspension includes spherical particles having an average particle size of from 0.5-20 microns. The phosphor particles can be oxides or sulfide of phosphor. The coating can be applied by syringe injection.

Oshima et al. (5,932,139) teaches phosphor particles applied by ink-jet printing.

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Kawamura et al. (6,547,617) process by incorporating metal oxide, sulfide phosphor particles or hollow particles as evidenced by Matsuda et al. (5,644,193) and Oshima et al. (5,932,139) with the expectation of achieving similar success.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian K Talbot Primary Examiner

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Page 5

Art Unit 1762

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